

ABSTRACT

Integrated mobility management mechanisms monitor a mobile host's degree of mobility and the applications it executes. Mobile hosts move between wireless-access, micro-mobility domains interconnected through a backbone network. While the mobile host is stationary, MIP-LR and SIP systems operate to ensure TCP and RTP/UDP packets, respectively, traveling to/from the mobile host are properly routed through the backbone to the host's current domain. An MMP system routes packets through this domain. As the host moves within a domain, the MMP system updates the domain routing to the mobile host's new location. As the mobile host moves between domains, the host obtains a new IP address and the MMP system establishes routing within the new domain to the mobile host's new location. In addition, the MIP-LR and SIP systems activate to ensure the TCP and RTP/UDP packets, respectively, are automatically re-routed through the backbone to the new domain.